

01379200 DEAD RIVER NEAR MILLINGTON, NJ

LOCATION.--Lat 40x38'56", long 74x31'25", Morris County, Hydrologic Unit 02030103, at bridge on King George Road (Spur County Route 527), 100 ft upstream from mouth, 2.0 mi south of Millington, and 4.2 mi south of Basking Ridge.

DRAINAGE AREA.--20.8 mi².

PERIOD OF RECORD.--Water years 1962, 1963-65, 1967, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Instantaneous discharge, cfs (00061) | Turbidity white light, det ang 90+/-30 correctd NTRU (63676) | UV absorbance, 254 nm, wat flt units /cm (50624) | UV absorbance, 280 nm, wat flt units /cm (61726) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unfltrd uS/cm 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO3 (00900) |
|-----------|---|---|--|--|---|---|---|---|---|---|--|--|--|
| Date | Calcium water, fltrd, mg/L (00915) | Magnesium, water, fltrd, mg/L (00925) | Potassium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unfltrd end pt, lab, mg/L as CaCO3 (90410) | Chloride, water, fltrd, mg/L (00940) | Fluoride, water, fltrd, mg/L (00950) | Silica, water, fltrd, mg/L (00955) | Sulfate water, fltrd, mg/L (00945) | Residue water, fltrd, sum of constituents mg/L (70301) | Residue on evap. at 180degC wat flt mg/L (70300) | Residue total at 105 deg. C, suspended, mg/L (00530) | Ammonia + org-N, water, fltrd, mg/L as N (00623) |
| Date | Ammonia water, fltrd, mg/L as N (00608) | Nitrite + nitrate water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Particulate nitrogen, susp, water, mg/L (49570) | Total nitrogen, water, fltrd, mg/L (00602) | Total nitrogen, water, unfltrd mg/L (00600) | Orthophosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, fltrd, mg/L (00666) | Phosphorus, water, unfltrd mg/L (00665) | Total carbon, suspnd sedimnt total, mg/L (00694) | Inorganic carbon, suspnd sedimnt total, mg/L (00688) | Organic carbon, suspnd sedimnt total, mg/L (00689) | Organic carbon, water, fltrd, mg/L (00681) |
| NOV 22... | 0930 | 18 | 8.3 | .137 | .107 | 761 | 7.3 | 64 | 6.8 | 447 | 14.0 | 9.7 | 130 |
| FEB 08... | 1250 | 22 | 6.0 | .067 | .051 | 758 | 12.8 | 91 | 7.3 | 846 | 10.0 | 1.3 | 200 |
| MAY 12... | 1310 | 7.8 | 22 | .104 | .082 | 762 | 6.7 | 72 | 7.0 | 662 | 21.0 | 18.6 | 170 |
| AUG 25... | 0930 | 4.7 | 23 | .104 | .079 | 762 | 7.1 | 76 | 7.4 | 710 | 25.5 | 18.8 | 160 |
| NOV 22... | 31.6 | 12.2 | 2.98 | 34.2 | 80 | 66.3 | E.1 | 17.0 | 25.2 | 246 | 265 | 4 | .27 |
| FEB 08... | 49.7 | 17.4 | 3.01 | 96.9 | 66 | 211 | E.1 | 15.5 | 27.1 | 473 | 487 | -- | .32 |
| MAY 12... | 44.4 | 15.5 | 5.07 | 53.8 | 87 | 108 | .2 | 12.9 | 37.7 | 344 | 378 | -- | .63 |
| AUG 25... | 41.7 | 14.4 | 9.16 | 69.0 | 80 | 112 | .2 | 12.4 | 49.3 | 404 | 415 | 22 | .55 |
| NOV 22... | .043 | 1.74 | .008 | .06 | 2.0 | 2.1 | .330 | .30 | .36 | .5 | <.1 | .5 | 3.8 |
| FEB 08... | .073 | 2.61 | -- | .06 | 2.9 | 3.0 | .306 | .33 | .38 | .6 | <.1 | .6 | 2.6 |
| MAY 12... | .140 | 2.66 | -- | .14 | 3.3 | 3.4 | .802 | .84 | .97 | .9 | <.1 | .9 | 3.3 |
| AUG 25... | .084 | 9.12 | -- | .10 | 9.7 | 9.8 | 2.24 | 2.36 | 2.43 | .8 | <.1 | .8 | 4.2 |

PASSAIC RIVER BASIN

01379200 DEAD RIVER NEAR MILLINGTON, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) | Boron, water, fltrd, ug/L (01020) | Sus- pended sedi- ment concen- tration mg/L (80154) | Sus- pended sedi- ment dis- charge, tons/d (80155) |
|--------------|---|---|--|---|
| NOV 22... | 2.2 | 148 | -- | -- |
| FEB 08... | -- | 131 | 30 | 1.8 |
| MAY 12... | E1.2 | 192 | 27 | .57 |
| AUG 25... | <1.0 | 289 | -- | -- |

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Entero- cocci, m-E MF, water, col/ 100 mL (31649) | E coli, m-TEC MF, water, col/ 100 mL (31633) | Fecal coli- form, ECbroth water, MPN/ 100 mL (31615) |
|--------------|------|--|--|---|
| JUN 01... | 0915 | 80 | 300 | 230 |
| 08... | 0905 | 660 | 1,300 | 1,700 |
| 15... | 0905 | 360 | 1,000 | 800 |
| 22... | 0920 | 310 | 500 | 1,100 |
| 29... | 0850 | 670 | 1,300 | 2,200 |